

FIRE SAFETY INSPECTION REPORT

T Design Knitwear Ltd.

ACCORD ID: 12898

Boherarchala, Sreepur, Gazipur, Bangladesh

24.193624, 90.405853

Other Factories: None



ACCORD
on Fire and Building Safety in Bangladesh

Inspected by: Md. Rakibul Alam & Safawan Abyaz

Date: 13 August 2017



ACCORD
on Fire and Building Safety in Bangladesh

Summary

T Design Knitwear Ltd. complex was surveyed for fire safety on 13 August 2017 by The Accord Inspection Team.

The purpose of the survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.



Table 1. Findings and Recommendations

| No. | Category | Finding | Recommendation | Remediation Timeframe |
|-----|----------------------------|---|--|--------------------------|
| F-1 | Fire Rated Construction | <p>Exit stairs are not separated from work areas & other spaces on each floor by fire-rated construction due to unprotected openings and penetrations.</p> <p>Location: Utility Building where top floors are construction and fire door installation is not completed in rest of the floors.</p> | <p>Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation.</p> <p>Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies.</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p> <p>Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets ACCORD standard 6.8.3.1.</p> | Within 3 months |





F-2 Fire Rated Construction

Unsealed electrical shafts are located in the fire-rated floor/ceiling assemblies.

Location: Main building.

Provide a minimum 2-hr fire-rated shafts to separate the utility risers from each floor level and seal all penetrations in floor/ceiling assemblies to maintain the fire separation.

Within 3 months



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| F-3 | Fire Rated Construction | Fire doors are kept open by external objects without interfacing with fire alarm system. | Provide automatic door-closing devices tied to the fire alarm system, if fire doors are required to be held open for functional reasons. | Within 3 months |
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| F-4 | Fire Rated Construction | Unsealed penetrations and openings are located in the fire-rated walls and ceilings. | Seal all penetrations and openings in the fire rated walls and ceilings to maintain the required fire separation. | Within 3 months |
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| F-5 | Fire Protection | The fire alarm system installation was almost completed which requires detailed design review to confirm compliance with NFPA 72 and Accord standard. | Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval then complete installation work as per reviewed design and in accordance with NFPA 72. | Design Within 2 Months Installation Within 6 months |
|-----|-----------------|---|--|--|



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| F-6 | Fire Protection | Both the building has an occupied floor greater than 10 m (33 ft) and requires standpipe system in accordance with NFPA 14 and fire pump as per NFPA 20. Note: Installation is almost completed without design review. | Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval complete installation work in accordance with NFPA 14 and NFPA 20. | Design Within 2 Months Installation Within 6 months |
|-----|-----------------|---|--|--|





F-7 Egress Lighting

Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes at both production and utility buildings.

Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.

Within 1 months

F-8 Egress

Occupiable roof is not provided with an adequate parapet / guard rail.

All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)

Within 3 months





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| F-9 | Fire Rated Construction | The fire pump room is at main building, not provided with adequate fire separation. | Provide fire pump room with 2 hr rated fire separation when not sprinklered and 1 hr rated fire separation when provided with automatic sprinklers, in accordance with NFPA 20. | Within 3 months |
|-----|-------------------------|---|---|-----------------|



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|------|--------|--|--|-------------|
| F-10 | Egress | Exit capacity is not adequate for the occupant load. Utility building 2nd floor dining, available capacity is 475 and occupant load is 640. | Reduce occupant load immediately to not more than available exit capacity (475). Provide additional exits in the future to increase exit capacity. | Immediately |
|------|--------|--|--|-------------|



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|------|-------------------------|---|---|-----------------|
| F-11 | Fire Rated Construction | South-west stairwell stair discharge directly inside the building at ground floor and not separated from building interior. | Modify stair to discharge directly outside of the building and shall have to be safe egress path. Or Provide sprinkler protection for discharge floor in accordance with NFPA 13. | Within 3 months |
|------|-------------------------|---|---|-----------------|



